

L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1983:135066 CAPLUS

DN 98:135066

ED Entered STN: 12 May 1984

TI Composition for tantalum oxide film production

PA Nippon Soda Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC C01G035-00

ICA B01J023-20; C03C017-25

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57160915	A2	19821004	JP 1981-44081	19810327 <--
	JP 01002669	B4	19890118		
PRAI	JP 1981-44081		19810327		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 57160915	IC	C01G035-00
	ICA	B01J023-20; C03C017-25

AB A mixture of Ta alcoholate, lactic acid in 1-5 mols/Ta, and organic solvent was used. A mixture of the former 2 may can be heated. Thus, Ta(OEt)<sub>5</sub> 40, 70% aqueous lactic acid 39, and EtOH 200 parts were mixed and stored for 1 mo in a nonstoppered wide-mouth bottle. A glass plate was painted with the composition by soaking or spraying and heated at 500° for 30 min and was transparent.

ST tantalum oxide antireflective film prodn

IT Optical materials

(films, antireflective, production of tantalum oxide)

IT 59763-75-6

RL: PRP (Properties)

(antireflective films, fabrication of)

IT 50-21-5, uses and miscellaneous 6074-84-6

RL: USES (Uses)

(in tantalum oxide antireflective film production)

RN 59763-75-6

RN 50-21-5

RN 6074-84-6

L20 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1982-96478E [45] WPIX

TI Tantalum oxide thin membrane forming compsns. - containing tantalum alcoholate and oxy acid and an organic solvent.

DC L03

PA (NIPS) NIPPON SODA CO

CYC 1

PI	JP 57160915	A	19821004 (198245)*	3	<--
	JP 64002669	B	19890118 (198906)		

ADT JP 57160915 A JP 1981-44081 19810327

PRAI JP 1981-44081 19810327

IC B01J023-20; C01G035-00; C03C017-25; C23C018-12

AB JP 57160915 A UPAB: 19930915

Compsns. consist of (a) a tantalum alcoholate, (b) an oxyacid (1-5 mol per one tantalum atom of the tantalum alcoholate) and (c) an organic solvent which can dissolve both (a) and (b), or (a) a reaction prod. of a tantalum alcoholate and an oxyacid (1-5 mol per one tantalum atom of the tantalum alcoholate) and (b) an organic solvent which can dissolve the reaction

prod. Pref. oxyacid is lactic acid.

Clear tantalum oxide membrane is used as photo-constrast agent in the reflection preventing membrane liquid crystal appts. of solar cell, or thin membrane capacitor, etc.

FS CPI  
FA AB  
MC CPI: L02-G07C; L03-B03; L03-E05; L03-G05

L20 ANSWER 3 OF 3 JAPIO (C) 2005 JPO on STN

AN 1982-160915 JAPIO

TI COMPOSITION FORMING THIN TANTALUM OXIDE FILM

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PA NIPPON SODA CO LTD

PI JP 57160915 A 19821004 Showa

AI JP 1981-44081 (JP56044081 Showa) 19810327

PRAI JP 1981-44081 19810327

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1982

IC ICM C01G035-00

ICA B01J023-20; C03C017-25

AB PURPOSE: To obtain a composition giving a homogeneous film by adding an oxyacid to a Ta alcoholate solution to be applied to a substrate for forming a transparent tantalum oxide film to prevent the solution from getting cloudy in the presence of a very small amount of water.

CONSTITUTION: This composition consists of a Ta alcoholate (a), an oxyacid (b) in an amount of 1~5mol per one Ta atom of (a) and an organic solvent dissolving (a) and (b). The used oxyacid is lactic acid, glycolic acid or the like. The preferred oxyacid is an aliphatic oxyacid, and the especially preferred oxyacid is lactic acid. When the oxyacid is blended by <1mol, the prescribed improvement in the stability of the composition is not attained. The organic solvent includes hydrocarbons and alcohols, and alcohols are preferably used because of the easy handleability.

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